

Bourdon tube pressure gauge Test gauge series, class 0.6 Model 312.20

WIKA data sheet PM 03.01



for further approvals
see page 3

Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Precision measurement in laboratories
- High-accuracy pressure measurement
- Testing of industrial type pressure gauges

Special features

- Knife edge pointer for optimal accuracy of reading
- Precise movement with wear parts of argantan
- Scale ranges up to 0 ... 600 bar



Test gauge series model 312.20

Description

Design

EN 837-1

Nominal size in mm

160

Accuracy class

0.6

Scale ranges

0 ... 0.6 to 0 ... 600 bar

or all other equivalent vacuum or combined pressure and vacuum ranges

Adjustment medium

≤ 25 bar: Gas

> 25 bar: Liquid

Pressure limitation

Steady: Full scale value

Fluctuating: 0.9 x full scale value

Short time: 1.3 x full scale value

Permissible temperature

Ambient: -40 ... +60 °C

Medium: +80 °C maximum

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):

max. ±0.4 %/10 K of full scale value

Ingress protection

IP 54 per EN 60529 / IEC 529

Standard version

Process connection

Cu-alloy,
lower mount (LM) or lower back mount (LBM),
G ½ B (male), 22 mm flats

Pressure element

< 100 bar: Cu-alloy, C-type
≥ 100 bar: Stainless steel 316L, helical type

Movement

Cu-alloy, wear parts argantan

Dial

Aluminium, white, black lettering

Pointer

Knife edge pointer, aluminium, black

Case

Stainless steel

Window

Instrument glass

Bezel ring

Cam ring (bayonet type), stainless steel

CE conformity

Pressure equipment directive

97/23/EC, PS > 200 bar, module A, pressure accessory

Approvals

- **GOST**, metrology/measurement technology, Russia
- **GOST-R**, import certificate, Russia
- **CRN**, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates ¹⁾

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof wetted parts metal component, indication accuracy)
- DKD/DAkkS certified accuracy

¹⁾ Option

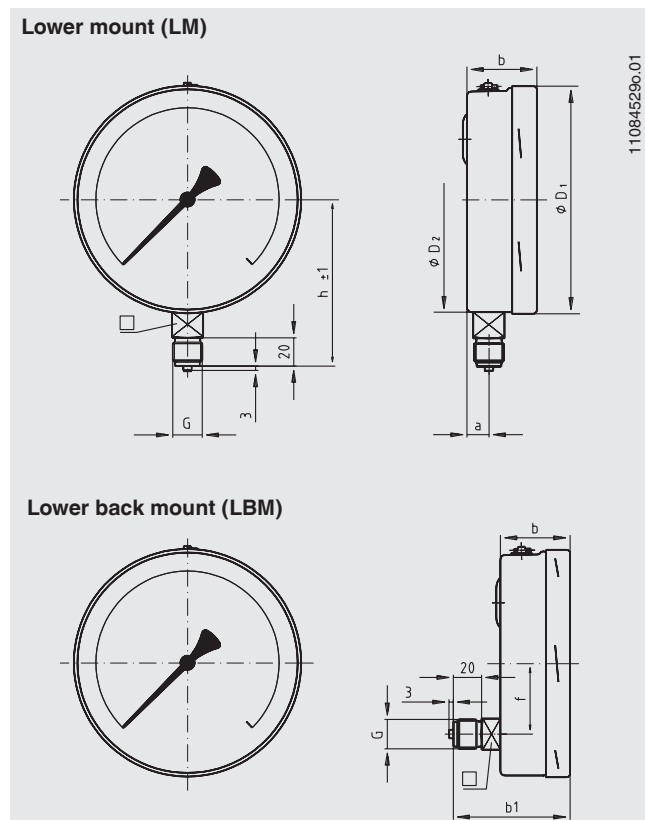
Approvals and certificates, see website

Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Liquid filling (model 333.50, data sheet PM 03.06)
- Increased medium temperature to 100 °C with special soft solder
- Increased medium temperature to 200 °C (data sheet PM 03.06)
- Panel or surface mounting flange, stainless steel
- Triangular bezel, polished stainless steel, with clamp
- Higher indication accuracy: Class 0.25
- Mirror band scale
- Zero point adjustable from outside (adjustable dial)
- Adjustment medium gas from 25 bar
- Switch contacts (data sheet AC 08.01)
- Transport case

Dimensions in mm

Standard version



NS	Dimensions in mm									Weight in kg
	a	b	b ₁	D ₁	D ₂	f	G	h ±1	SW	
160	15.5 ¹⁾	49.5 ¹⁾	83 ¹⁾	161	159	50	G ½ B	118	22	1.10

Process connection per EN 837-1 / 7.3

1) Plus 16 mm with scale ranges ≤ 4 bar and ≥ 100 bar

Ordering information

Model / Nominal size / Scale range / Connection size / Connection location / Options

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